Index 700-041 Span Sign Structure

Design Criteria

AASHTO LRFD Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals (LRFDLTS-1); Structures Manual (SM), Volume 3, FDOT Modifications to LRFDLTS-1; Structures Manual (SM) Introduction, I.6 References; Structures Design Guidelines (SDG); FDOT Design Manual (FDM)

Design Assumptions and Limitations

The maximum span length of Span Sign Structures is 220 feet. See the notes on *Index* 700-041, *FDM* 230, *FDM* 261, *Structures Manual (SM)*, Volume 3 and the *SDG* for additional information.

Use *Index 700-041* in conjunction with *Index 700-030* and the *Span Sign-LRFD v1.0* Mathcad 15 computer program located on the **Structures Design Programs Library** website.

Plan Content Requirements

See the *FDM*, Chapter 325.

Complete the "Span Sign Structures Data Table". Much of the data for inclusion in the table may be found in the **Span Sign-LRFD v1.0** output. Include Design Wind Speed and soils information.

Span Sign Structures Data Table:

							SPAN S	SIGN STRUCTURES D	ATA TABLE				Table Date	01-01-11
			DIMENSIONS	5	PNLS			MEM	IBER SIZES			SPLIC	5	
SIGN#	STATION	Α	В	С	D	Е	F (CHORD)	G (WEB)	H (LEFT UPRIGHT)	J (RIGHT UPRIGHT)	K (CAMBER)	SA	SB	SC
		ft	ft	ft	#	in	O. D. x Wall Thk. (in)	Angle (in)	O. D. x Wall Thk. (in)	O. D. x Wall Thk. (in)	in	Angle (in)	#	in
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							SPA	AN SIC	ŝΝ	STRUC	Τι	URES D	4T.	A TABL	Ε ((CONT.)								Table Da	ate 01-01-11
	ALTERNATE SPLICE GUSSET PLATES																								
SIGN#	PA	PB	PC	PD	PE	PF	GA	GB	П	GC	Т	GD		GE	Г	GF		GG		GH	Т	GJ		GK	GL
	in	in	in	in	in	#	in	in	ft	in	ft	in	fţ	in	ft	in	ft	in	ft	in	ft	in	fţ	in	in
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					SPAN .	SIGN S	TRUCT	URES I	DATA	TAI	BLE (C	ONT.)			Table Da	ate 01-01-11
			LE	T UPRI	GHT COM	INECTION	I				RI	GHT UP	RIGHT C	ONNECTI	ON	
SIGN#	LA	LB	LC	LD	LE	LF	LG	LH	RA	RB	RC	RD	RE	RF	RG	RH
	in	#	in	in	in	in	in	in	in	#	in	in	in	in	in	in

							SPAN :	SIGN S	TRUCT	URES L	DATA T	ABI	LE (CONT.)					Table Date	01-01-11
			ASE CONN	ECTION		RIGHT BASE CONNECTION														
SIGN#	BA	BB	BC	BD		BE	BF	BG	BH	BJ	CA	CB	CC	CD		CE	CF	CG	CH	CJ
	in	#	in	in	ft	in	in	in	in	in	in	#	in	in	ft	in	in	in	in	in
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					SPAN SIGN	STI	RUCTU	IRES E	DAT	A TABL	Ε (CONT.)		Ti	able Date	07-01-14							
	LEFT DRILLED SHAFT											RIGHT DRILLED SHAFT											
SIGN#		DA		DB	DC	DD	DE	DF		FA		FB	FC	FD	FE	FF							
	ft	in	ft	in	# / size	#	in	in	ft	in	ft	in	# / size	#	in	in							

NOTES [Notes Date 7-01-13]:

- NOTES | Notes Date 7-01-13|:

 Work these Data Tables with Index 11320.

 Design Wind Speed = __mph

 Upright wall thickness given is a minimum dimension.

 Erection is the Contractor's responsibility.

 To facilitate erection, the Contractor should consider using two vertical lift points, each located near a panel point approximately 20 to 25% of the truss length from each end.

 DC and FC shall include quantity and size of reinforcing steel.

FOUNDATION NOTES [Notes Date 7-01-12]: 1. Design based on Borings taken

Payment

Item number	Item Description	Unit Measure
700-4-12C	Overhead Static Sign Structure (F&I, Span)	EA

See Standard Plans Instruction for Index 700-030 for sign panel.

See the **BOE** and **Specification 700** for additional information on payment, pay item use and compensation.